Attorney Docket No.: PHO 99001C

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: *Bennett*	)	Art Unit: *2654*
	)	
	)	Examiner: *Not Assigned*
Serial No.: *10/684,357*	)	
	)	
Filed: October 10, 2003 as a continuation of serial number 09/439,145, filed November 12, 1999, now U.S. patent 6,633,846	)	
For: *Distributed real time speech recognition system*	)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

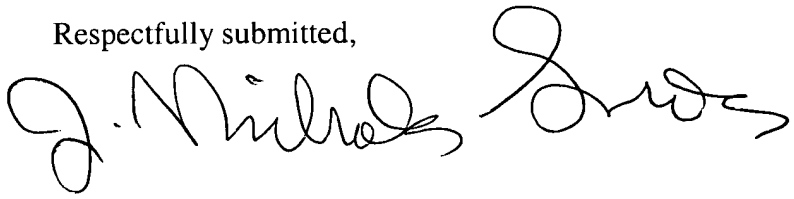
Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. Regarding the document(s), publication(s) or other information listed on the attached PTO-1449, Applicant believes the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information cited herein.

2. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed before the mailing date of a first Office action on the merits.

3. Copies of the aforementioned references were provided by the applicant and/or cited by the examiner in the related parent application to the above. Should it be necessary for the applicant to provide additional copies of any other references, please contact the undersigned.

Respectfully submitted,



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I hereby certify that the foregoing is being deposited with the U.S. Postal Service, postage prepaid, to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, this 3rd day of March 2004.

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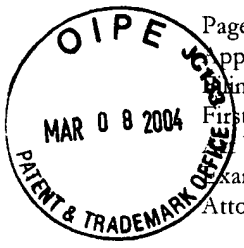

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First Named Inventor: **Bennett**
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Examiner Name: **N/A**
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Examiner Initials	Patent Number	Publication Date	Inventor Name
	US4473904	09/25/1984	Suehiro et al.
	US4587670	05/06/1986	Levinson et al.
	US4783803	11/08/1988	Baker et al.
	US4785408	11/15/1988	Britton et al.
	US4852170	07/25/1989	Bordeaux
	US4914590	04/03/1990	Loatman et al.
	US4991094	02/05/1991	Fagan et al.
	US4991217	02/05/1991	Garrett et al.
	US5068789	11/26/1991	van Vliembergen
	US5146405	09/08/1992	Church
	US5157727	10/20/1992	Schloss
	US5231670	07/27/1993	Goldhor et al.
	US5265014	11/23/1993	Haddock et al.
	US5293584	03/08/1994	Brown et al.
	US5384892	01/24/1995	Strong
	US5475792	12/12/1995	Stanford et al.
	US5513298	04/30/1996	Stanford et al.
	US5540589	07/30/1996	Waters
	US5602963	02/11/1997	Bissonnette et al.
	US5680628	10/21/1997	Carus et al.
	US5727950	03/17/1998	Cook et al.
	US5737485	04/07/1998	Flanagan et al.
	US5758322	05/26/1998	Rongley
	US5802526	09/01/1998	Fawcett et al.
	US5819220	10/06/1998	Sarukkai et al.
	US5836771	11/17/1998	Ho et al.
	US5867817	02/02/1999	Catallo et al.
	US5873062	02/16/1999	Hansen et al.
	US5884302	03/16/1999	Ho
	US5915236	06/22/1999	Gould et al.
	US5934910	08/10/1999	Ho et al.
	US5956683	09/21/1999	Jacobs et al.
	US5960394	09/28/1999	Gould et al.
	US5960399	09/28/1999	Barclay et al.
	US5995928	11/30/1999	Nguyen et al.
	US6009387	12/28/1999	Ramaswamy et al.
	US6029124	02/22/2000	Gillick et al.

Examiner Signature: **Date Considered:**

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	US6035275	03/07/2000	Brode et al.
	US6112176	08/29/2000	Goldenthal et al.
	US6119087	09/12/2000	Kuhn et al.
	US6138089	10/24/2000	Guberman
	US6141640	10/31/2000	Moo
	US6144848	11/07/2000	Walsh et al.
	US6144938	11/07/2000	Surace et al.
	US6182038	01/30/2001	Balakrishnan et al.
	US6185535	02/06/2001	Hedin et al.
	US6233559	05/15/2001	Balakrishnan
	US6256607	07/03/2001	Digalakis et al.
	US6269336	07/31/2001	Ladd et al.
	US6327561	12/04/2001	Smith et al.
	US6327568	12/04/2001	Joost
	US6336090	01/01/2002	Chou et al.
	US6363349	03/26/2002	Urs et al.
	US6374219	04/16/2002	Jiang
	US6381594	04/30/2002	Eichstaedt et al.
	US6389389	05/14/2002	Meunier et al.
	US6408272	06/18/2002	White et al.
	US6411926	06/25/2002	Chang
	US6427063	07/30/2002	Cook et al.
	2001/0016813	8/2001	Brown et al.
	2001/0032083	10/2001	Van Cleven
	2001/0056346	12/2001	Ueyama et al.
	2002/0046023	4/2002	Fujii et al.
	2002/0059068	5/2002	Rose et al.
	2002/0059069	5/2002	Hsu et al.
	2002/0086269	7/2002	Shpiro
	2002/0087325	7/2002	Lee et al.
	2002/0087655	7/2002	Bridgman et al.
	2002/0091527	7/2002	Shiau
Examiner Initials	**Foreign Patent Documents**		

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	EP1094388	04/2001	Kizna Corporation
	EP 1096471	05/2001	Ericsson
	WO 98/11534	03/1998	Siemens Aktiengesellschaft
	WO 99/48011	09/1999	Advanced Web Solutions, Inc
	WO 99/50830	10/1999	Microsoft Corporation
	WO 00/14727	03/2000	One Voice Technologies, Inc.
	WO 00/17854	03/2000	Nokia Networks Oy
	WO 00/20962	04/2000	International Business Machines Corporation
	WO 00/21075	04/2000	International Business Machines Corporation
	WO 00/21232	04/2000	International Business Machines Corporation
	WO 00/22610	04/2000	Nokia Mobile Phones Limited
	WO 00/30072	05/2000	Motorola Limited
	WO 00/30287	05/2000	Motorola Limited
	WO 00/68823	11/2000	Yahoo, Inc.
	WO 01/16936	03/2001	Andersen Consulting, LLP
	WO 01/18693	03/2001	Shoptok, Inc
	WO 01/26093	04/2001	One Voice Technologies, Inc
	WO 01/78065	10/2001	One Voice Technologies, Inc
	WO 01/95312	12/2001	Nokia, Inc.
	WO 02/03380	01/2002	Alcatel

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Examiner Initials	Other Publications
	B. ARONS, "The Design of Audio Servers and Toolkits for Supporting Speech in the User Interface," believed to be published in: Journal of the American Voice I/O Society, pp. 27-41, Mar. 1991.
	L.R. BAHL et al., "A Maximum Likelihood Approach to Continuous Speech Recognition," IEEE Transactions on Pattern Analysis and Machine Intelligence, PAMI-5, pp. 179-190, Mar. 1983. (12 pages)
	J.H. BAKER, "The Dragon System--An Overview," IEEE Trans. on ASSP Processing, ASSP-23(1): 24-29, Feb. 1975.
	L.E. BAUM et al., "Statistical Inference for Probabilistic Functions for Finite State Markov Chains," The Annals of Mathematical Statistics, 37: 1554-1563, 1966.
	L.E. BAUM et al., "A Maximization Technique Occurring in the Statistical Analysis of Probabilistic Functions of Markov Chains," The Annals of Mathematical Statistics, 1970, vol. 41, No. 1, pp. 164-171.
	L.E. BAUM, "An Inequality and Associated Maximation Technique in Statistical Estimation for Probabilistic Functions of Markov Processes," Inequalities-III, pp. 1-8, 1972.
	I. BENNETT, "A Study of Speech Compression Using Analog Time Domain Sampling techniques," A Dissertation Submitted to the Dept. Of Electrical Engineering and the Committee on Graduate Studies of Stanford University, May 1975, pp. 16-32; 76-111.
	V. DIGILAKIS et al., "Product-Code Vector Quantization of Cepstral Parameters for Speech Recognition over the WWW," believed to be published in: Proc. ICSLP '98, 4 pages, 1998.
	V. DIGILAKIS et al., "Quantization of Cepstral Parameters for Speech Recognition over the World Wide Web," believed to be published in: IEEE Journal on Selected Areas of Communications, 22 pages, 1999.
	J.L. FLANAGAN, "Speech Analysis Synthesis and Perception," 2nd edition, Springer-Verlag Berlin, 1972, pp. 1-53.
	G.D. FORNEY, "The Viterbi Algorithm," Proceedings of the IEEE, vol. 73, pp. 268-278, Mar. 1973.
	A. GERSHO et al., "Vector Quantization and Compression," Kluwer Academic Publishers, 1991, pp. 309-340.
	D. GIULIANI et al., "Training of HMM with Filtered Speech Material for Hands-Free Recognition," believed to be published in: Proceedings of ICASSP '99, Phoenix, USA, 4 pages, 1999.
	T. HAZEN et al., "Recent Improvements in an Approach to Segment-Based Automatic Language Identification," believed to be published in: Proceedings of the 1994 International Conference on Spoken Language Processing, Yokohama, Japan, pp. 1883-1886, Sep. 1994.
	D. HOUSE, "Spoken-Language Access to Multimedia (SLAM): A Multimodal Interface to the World-Wide Web," Masters Thesis, Oregon Graduate Institute, Department of Computer Science & Engineering, 59 pages, Apr. 1995.
	R.A. HUDSON, "Word Grammar," Blackman Inc., Cambridge, MA, 1984, pp. 1-14; 41-42; 76-90; 94-98; 106-109; 211-220.
	F. JELINEK et al, "Continuous Speech Recognition: Statistical Methods," Handbook of Statistics, vol. 2, P.R. Krishnaiah, Ed. Amsterdam, The Netherlands, North-Holland, 1982, pp. 549-573.
	L. JULIA et al., "HTTP://WWW.SPEECH.SRI.COM/DEMOS/ ATIS.HTML," believed to be published in: Proceedings AAAI'97: Stanford, pp. 72-76, Jul. 1997.
	R. LAU et al, "Webgalaxy-Integrating Spoken Language and Hypertext Navigation," believed to be

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	published in: in Kokkinakis, G. et al., (Eds.) Eurospeech '97, Proceedings of the 5th European Conference on Speech Communication and Technology, Rhodes (Greece), Sep. 22-25, 1997. pp. 883-886, 1997.
	P. LIEBERMAN, "Intonation, Perception and Language," Research Monograph No. 38, MIT Press, Cambridge, Mass., 1967, pp. 5-37.
	B. LIN et al., "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," believed to be published in: IEEE Automatic Speech Recognition and Understanding Workshop, Keystone, Colorado, USA, 4 pages, Dec. 1999.
	B. LU et al., "Scalability Issues in the Real Time Protocol (RTP)," Project Report for CPSC 663 (Real Time Systems), Dept. of Computer Science, Texas A & M University, 19 pages, 1999.
	J. MAKHOUL et al., "Vector Quantization in Speech Coding," Proceedings of the IEEE, vol. 73, No. 11, Nov. 1985, pp. 1551-1588. (38 pages)
	H. MELIN, "On Word Boundary Detection in Digit-Based Speaker Verification," believed to be published in: Workshop on Speaker Recognition and its Commercial and Forensic Applications (RLA2C), Avignon, France, Apr. 20-23, pp. 46-49, 1998.
	N. MORGAN et al., "Hybrid Neural Network/Hidden Markov Model Systems for Continuous Speech Recognition," Journal of Pattern Recognition and Artificial Intelligence, vol. 7, No. 4, 1993, pp. 899-916.
	R. QUIRK et al., "A Comprehensive Grammar of English Language," Longman, London and New York, 1985, pp. 245-331.
	L. RABINER, "Digital Processing of Speech Signals," Prentice Hall, 1978, pp. 116-171; 355-395.
	L. RABINER, "A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition," Proceedings of the IEEE, vol. 77, No. 2, Feb. 1989, pp. 257-286. (30 pages)
	L. RABINER et al., "Fundamentals of Speech Recognition," Prentice Hall, 1993, pp. 11-68.
	G. RAMASWAMY et al., "Compression of Acoustic Features for Speech Recognition in Network Environments," believed to be published in: IEEE International Conference on Acoustics, Speech and Signal Processing, pp. 977-980, Jun. 1998.
	L. TRAVIS, "Handbook of Speech Pathology," Appleton-Century-Crofts, Inc., 1957, pp. 91-124
	S. TSAKALIDIS et al., "Efficient Speech Recognition Using Subvector Quantization and Discrete-Mixture HMMs," believed to be published in: Proc. ICASSP '99, 4 pages, 1999.

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